



User Manual
Saferpay Payment Provider Plugin v17.0



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1. Introduction

The purpose of this document is to present a detailed description of Saferpay. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate, and how the system will react to external stimuli. This document is intended for both system stakeholders and developers and will serve as the foundation for software development.

2. Saferpay

Easy, flexible, secure - The comprehensive e-payment solution from Worldline for easier and more secure payment in your online shop.

Saferpay is a comprehensive e-payment solution for easy and secure payment in your online shop. Saferpay allows you to process all common national and international payment methods in your online shop– via just one single interface. With just a few clicks, the solution can be quickly and flexibly integrated into most shop systems.

This Odoo module is compatible to work with Saferpay payment methods. This supports the following payment methods and workflows of Saferpay.

- VISA
- MASTERCARD
- MAESTRO
- AMERICAN EXPRESS
- BANCONTACT
- DINERS
- JCB
- EPS
- KLARNA
- SOFORT BY KLARNA

- UNIONPAY
- PAYPAL
- TWINT
- PAYDIREKT
- IDEAL
- EPRZELEWY
- ALIPAY
- GOOGLEPAY
- APPLEPAY
- POST FINANCE PAY
- ACCOUNT-TO-ACCOUNT
- SEPA ELV
- WECHAT PAY

Support all Saferpay features, including the payment page, transaction interface, Saferpay fields, saved card functionality, refund, and cancellation. Additionally, ensure multi-website compatibility.

3. Configurations and Requirements

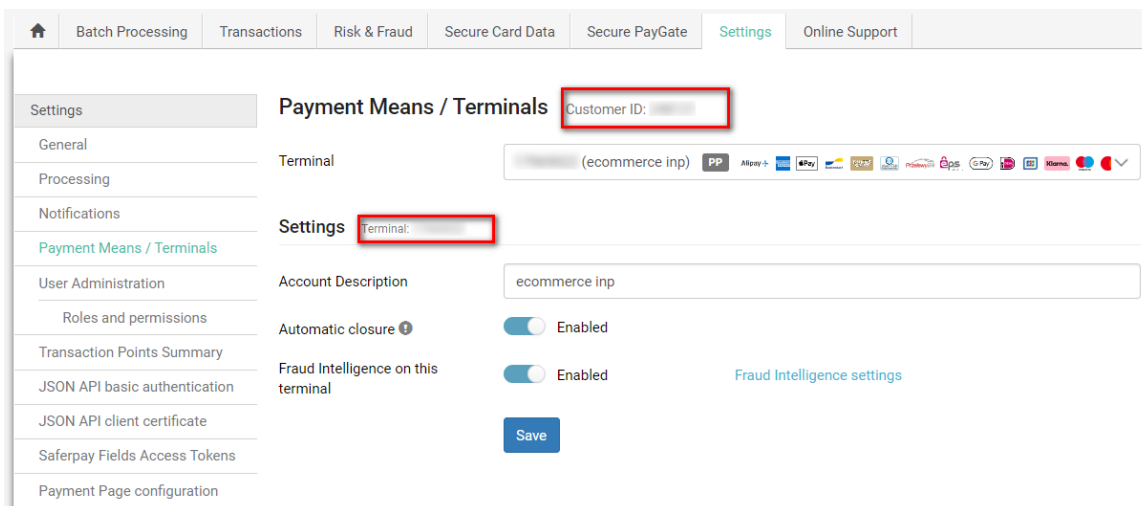
- ODOO working environment.
- License for Saferpay module.
- Before the installation, you must have a valid account on the Saferpay terminal.
- API credentials for Saferpay (Terminal ID, Customer ID, API Username and API Password) for Live and Test environment.
- A Valid Acceptance Agreement for payment Methods and credit cards.

4. General Configurations in the Backend

We can set the Saferpay configurations data by navigating to *Invoicing* → *Configuration* → *Saferpay Provider Configuration*.

- **Production Url:** We can set the production URL.
- **Test Url:** - We can set the Test URL of Saferpay, this is used to switch the Test/production environment.
- **Customer ID:** Set the Customer Id of the Saferpay account.
- **Terminal ID:** Set the Terminal Id of the Saferpay account.

We can get the payment means and terminals from the menu *Settings* → *Payment Means / Terminals* in Saferpay Backoffice.

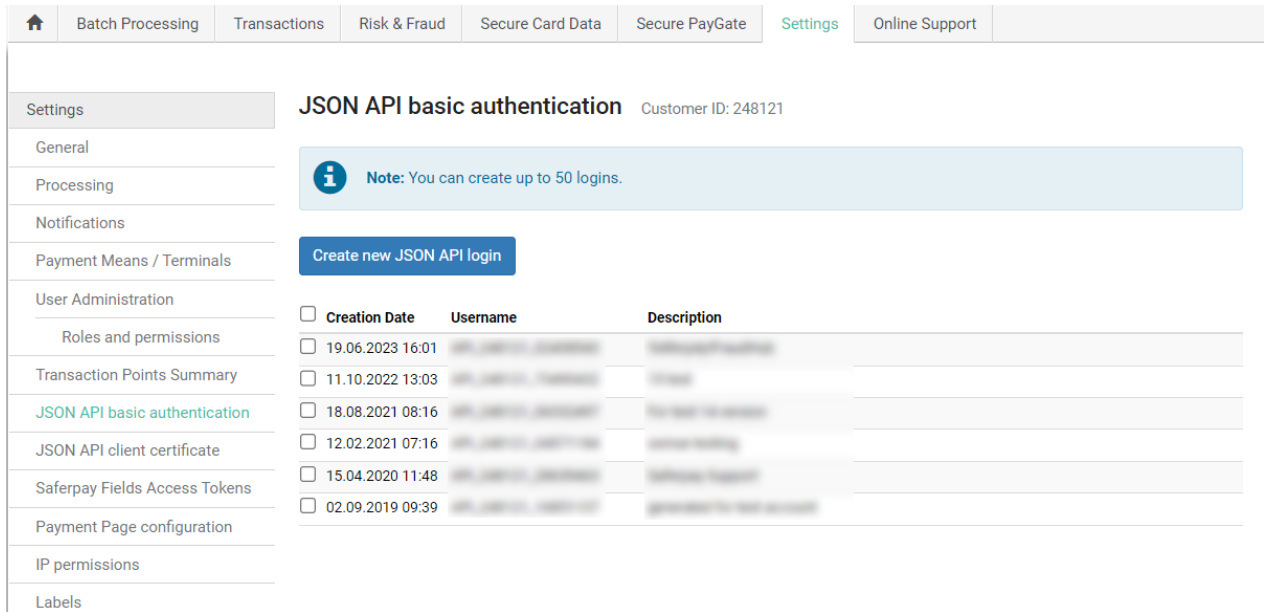


The screenshot shows the 'Payment Means / Terminals' configuration page in the Saferpay Backoffice. The page has a top navigation bar with tabs: Home, Batch Processing, Transactions, Risk & Fraud, Secure Card Data, Secure PayGate, Settings (selected), and Online Support. On the left, there is a sidebar menu with options: Settings (selected), General, Processing, Notifications, Payment Means / Terminals (highlighted), User Administration, Roles and permissions, Transaction Points Summary, JSON API basic authentication, JSON API client certificate, Saferpay Fields Access Tokens, and Payment Page configuration. The main content area is titled 'Payment Means / Terminals' and contains the following fields:

- Customer ID:** A text input field with a red box around it.
- Terminal:** A dropdown menu showing '(ecommerce inp)' and various payment logos (PP, Alipay, etc.).
- Settings:** A dropdown menu with 'Terminal' selected and a red box around it.
- Account Description:** A text input field containing 'ecommerce inp'.
- Automatic closure:** A toggle switch set to 'Enabled'.
- Fraud Intelligence on this terminal:** A toggle switch set to 'Enabled' with a link to 'Fraud Intelligence settings'.
- Save:** A blue button at the bottom.

Figure 1 - General Configuration

- **API Username:** Set the API Username.
- **API Password:** Set the API Password, we can create new API login from Saferpay Backoffice, *Settings* → *JSON API basic authentication* → *Create new JSON API login*.



JSON API basic authentication Customer ID: 248121

Note: You can create up to 50 logins.

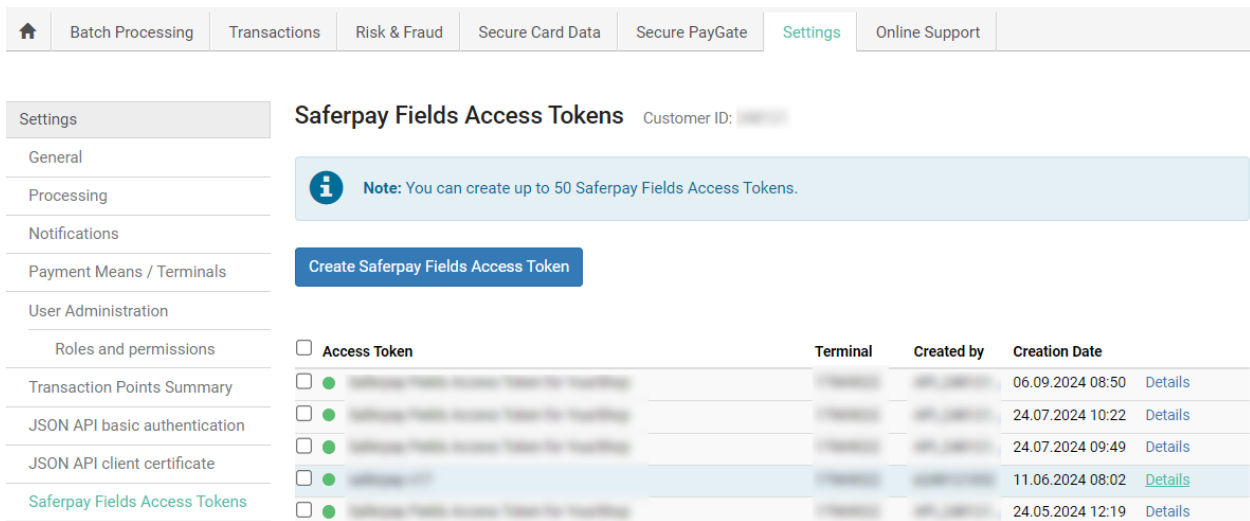
[Create new JSON API login](#)

<input type="checkbox"/>	Creation Date	Username	Description
<input type="checkbox"/>	19.06.2023 16:01	SAFEPAY_FIELDS_ACCESS_TOKEN	SAFEPAY_FIELDS_ACCESS_TOKEN
<input type="checkbox"/>	11.10.2022 13:03	SAFEPAY_FIELDS_ACCESS_TOKEN	SAFEPAY_FIELDS_ACCESS_TOKEN
<input type="checkbox"/>	18.08.2021 08:16	SAFEPAY_FIELDS_ACCESS_TOKEN	SAFEPAY_FIELDS_ACCESS_TOKEN
<input type="checkbox"/>	12.02.2021 07:16	SAFEPAY_FIELDS_ACCESS_TOKEN	SAFEPAY_FIELDS_ACCESS_TOKEN
<input type="checkbox"/>	15.04.2020 11:48	SAFEPAY_FIELDS_ACCESS_TOKEN	SAFEPAY_FIELDS_ACCESS_TOKEN
<input type="checkbox"/>	02.09.2019 09:39	SAFEPAY_FIELDS_ACCESS_TOKEN	SAFEPAY_FIELDS_ACCESS_TOKEN

Figure 2 – Retrieving JSON API Keys

- **API Key:** Set the API key that is used for Saferpay Fields.

We can create new API Tokens in the Saferpay Backoffice, from menu *Settings* → *Saferpay Fields Access Tokens*.



Saferpay Fields Access Tokens Customer ID: [redacted]

Note: You can create up to 50 Saferpay Fields Access Tokens.

[Create Saferpay Fields Access Token](#)

<input type="checkbox"/>	Access Token	Terminal	Created by	Creation Date	
<input type="checkbox"/>	SAFEPAY_FIELDS_ACCESS_TOKEN	Terminal	SAFEPAY_FIELDS_ACCESS_TOKEN	06.09.2024 08:50	Details
<input type="checkbox"/>	SAFEPAY_FIELDS_ACCESS_TOKEN	Terminal	SAFEPAY_FIELDS_ACCESS_TOKEN	24.07.2024 10:22	Details
<input type="checkbox"/>	SAFEPAY_FIELDS_ACCESS_TOKEN	Terminal	SAFEPAY_FIELDS_ACCESS_TOKEN	24.07.2024 09:49	Details
<input type="checkbox"/>	SAFEPAY_FIELDS_ACCESS_TOKEN	Terminal	SAFEPAY_FIELDS_ACCESS_TOKEN	11.06.2024 08:02	Details
<input type="checkbox"/>	SAFEPAY_FIELDS_ACCESS_TOKEN	Terminal	SAFEPAY_FIELDS_ACCESS_TOKEN	24.05.2024 12:19	Details

Figure 3 – Retrieving Saferpay field access token

- **Liability Shift Behaviour:** If the liability shifts (liability shift is used to check this transaction is done by any fraud user) of the card gets failed, then the workflow proceeds with this setting, there are two liability shift behaviours, they are,
 - Hold
 - Cancel

Force 3D secure authentication during transactions: If enabled, Saferpay will ensure a Forced 3ds authentication. The 3ds authentication type is also displayed in Transaction overview section.

- **Payment Method Synchronization:** Automatically retrieves and configure all available payment methods from the Saferpay account.
- **Customer License:** Fetches license package and features details from Saferpay and adds them under *Invoicing-> Configuration -> Saferpay Provider Configuration -> Customer License*.
- **Create API Key:** Generates the API key required for Saferpay field functionality.
- **Send Status Email:** Sends status update emails to customer.
- **Update Payment Method Logo From Saferpay(svg):** If this field is enabled, the system will automatically run a weekly cron job to update the payment provider's logo. If disabled, a static image will be used instead.

The screenshot shows the 'Configuration' tab selected in the top navigation bar. A dropdown menu is open, listing various configuration options. The option 'Saferpay Provider Configuration' is highlighted with a red rectangular box. In the background, a payment transaction summary is visible with details such as Reference (INV/2024/00015), Amount (\$ 2,068.85), and Provider (Saferpay - JCB). Below this, the 'SAFERPAY INFO' section contains fields like Saferpay State (DO_NOT_RETRY), Token, TransactionID, and CaptureID.

Figure 4 - Configuration List View

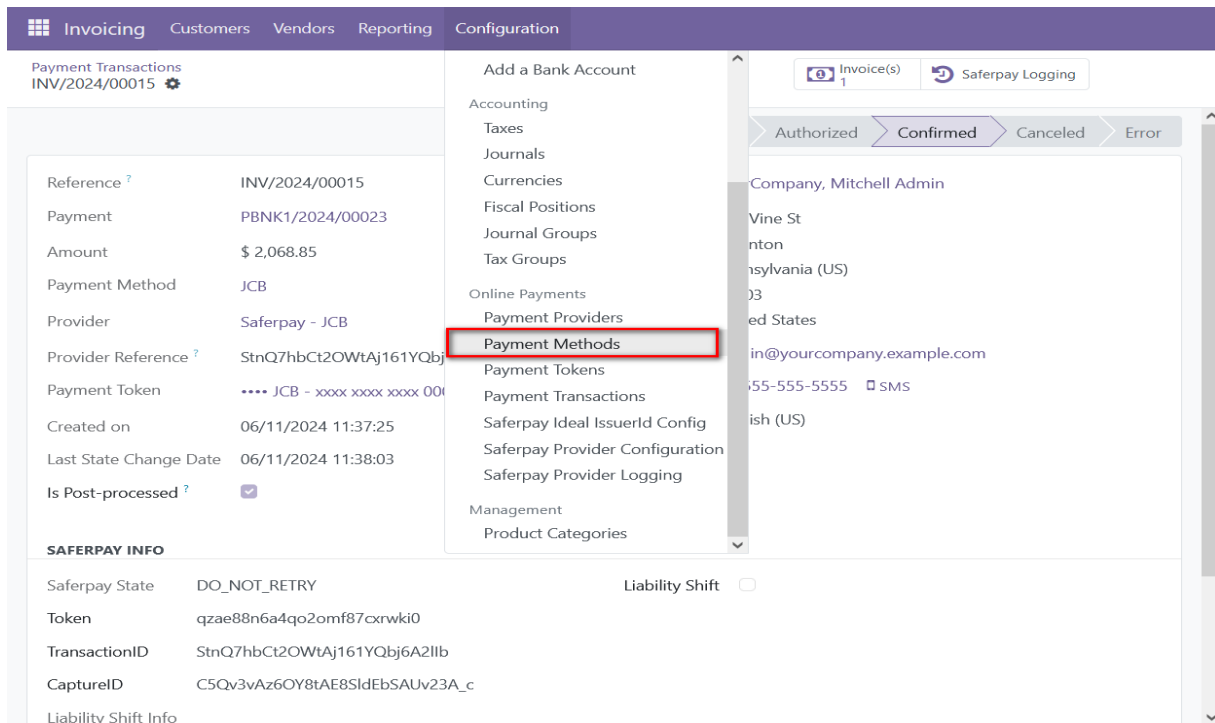
The screenshot displays the 'Saferpay Provider Configuration' form. At the top, there are buttons for 'Payment Method synchronization', 'Create API key', and 'Customer License'. The form is organized into two columns of fields. The left column includes 'Production Url' (https://www.saferpay.com), 'State' (radio buttons for Disabled, Enabled, and Test Mode, with Test Mode selected), 'Test Url' (https://test.saferpay.com), 'Customer ID' (248,121), 'Terminal ID' (17,969,022), 'Payment Page Configuration Name', 'Send Status Email' (checked), and 'Need CVC form for Alias payment' (unchecked). The right column includes 'API User Name' (API_248121_04571184), 'API Password' (masked with dots), 'API Key' (c82133c8-a28f-4de3-971d-26379bc8ac35), 'Liability Shift Behavior' (Hold), 'Force 3D secure authentication during transactions' (unchecked), and 'Update Payment Method Logo From Saferpay(svg)' (unchecked). At the bottom left, there are tabs for 'Description' and 'Customer License'.

Figure 5 - Configuration Form View

- Smart buttons
 - Providers: List of acquires (Payment methods) under this configuration.
 - Logging: List of all logs regarding the API call.

5. Payment Method Configurations

We can configure the payment methods for Saferpay from the menu *Invoicing* → *Configuration* → *Payment Methods*, as shown in the figure.



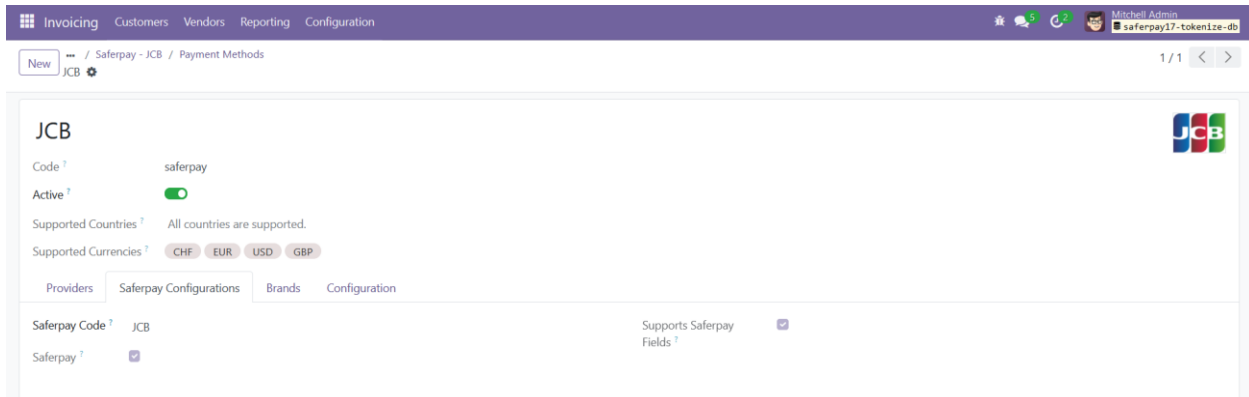
The screenshot shows the Saferpay configuration interface. The top navigation bar includes 'Invoicing', 'Customers', 'Vendors', 'Reporting', and 'Configuration'. The 'Configuration' menu is open, and 'Payment Methods' is highlighted with a red box. The main content area displays a table of payment transactions for 'INV/2024/00015'. The table includes columns for Reference, Payment, Amount, Payment Method, Provider, Provider Reference, Payment Token, Created on, Last State Change Date, and Is Post-processed. Below the table is the 'SAFERPAY INFO' section, which includes fields for Saferpay State, Token, TransactionID, CaptureID, and Liability Shift.

Reference ?	INV/2024/00015
Payment	PBNK1/2024/00023
Amount	\$ 2,068.85
Payment Method	JCB
Provider	Saferpay - JCB
Provider Reference ?	StnQ7hbCt2OWtAj161YQbj
Payment Token JCB - xxxx xxxx xxxx 00
Created on	06/11/2024 11:37:25
Last State Change Date	06/11/2024 11:38:03
Is Post-processed ?	<input checked="" type="checkbox"/>

SAFERPAY INFO

Saferpay State	DO_NOT_RETRY	Liability Shift	<input type="checkbox"/>
Token	qzae88n6a4qo2omf87cxrwki0		
TransactionID	StnQ7hbCt2OWtAj161YQbj6A2llb		
CaptureID	C5Qv3vAz6OY8tAE8SldEbSAUv23A_c		

Figure 6 - Payment Methods list view



The screenshot shows a web application interface for configuring a payment method. The breadcrumb trail is "Invoicing > Customers > Vendors > Reporting > Configuration > Saferpay - JCB > Payment Methods". The main content area is titled "JCB" and features the JCB logo in the top right corner. The configuration details are as follows:

- Code:** saferpay
- Active:**
- Supported Countries:** All countries are supported.
- Supported Currencies:** CHF, EUR, USD, GBP
- Providers:** Saferpay Configurations, Brands, Configuration
- Saferpay Code:** JCB
- Saferpay:**
- Supports Saferpay Fields:**

Figure 7 - Payment Method form View

Here we can set the allowed currency and code that are used for Saferpay transaction.

- Saferpay Code: Code that is used for Saferpay communication. To identify the payment method used for the transaction.
- Allowed Currencies: Used to set up the predefined currencies to that payment method.

6. Provider Configurations in Backend

- We can set the acquirers/payment methods for Saferpay from the menu *Invoicing* → *Configuration* → *Payment Providers*, as shown in the figure.

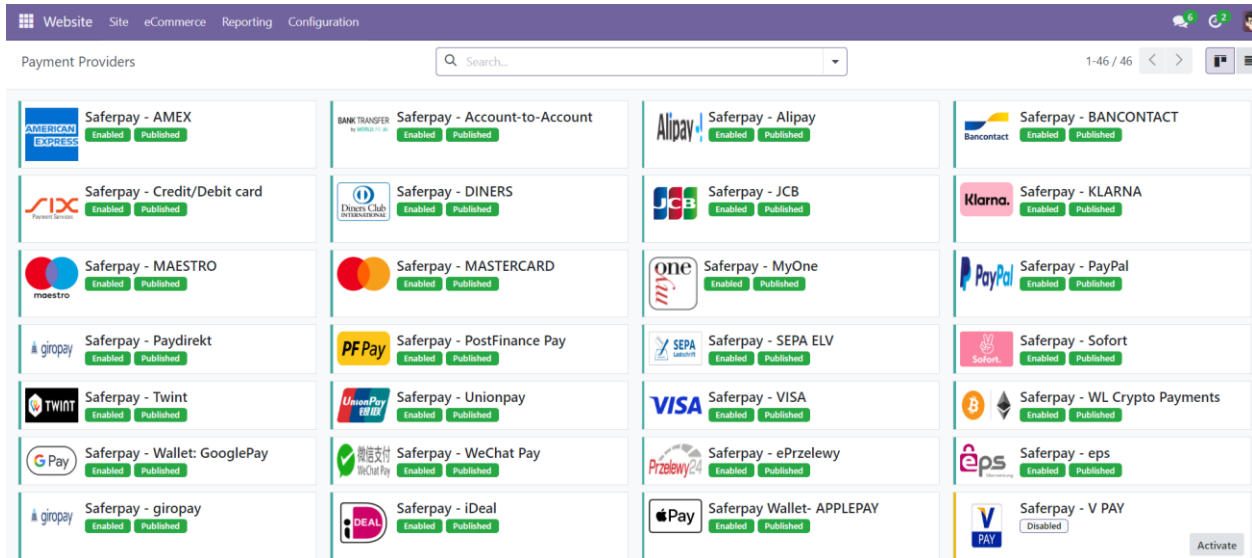


Figure 8 – Payment Providers Kanban View

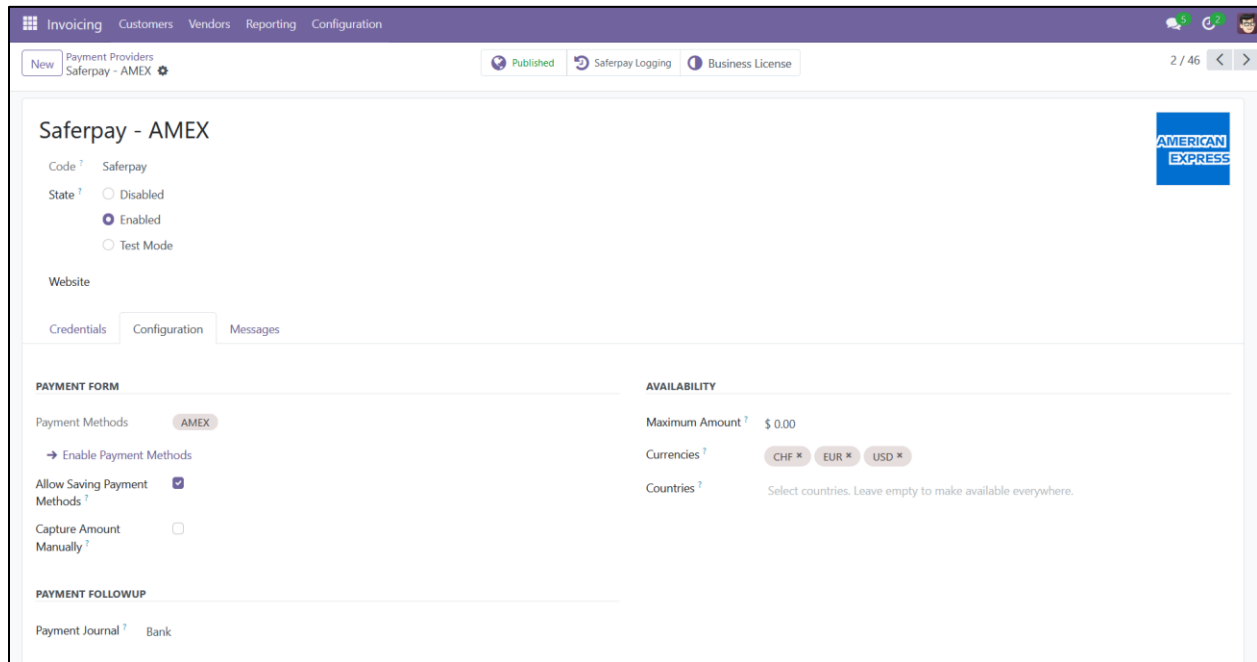
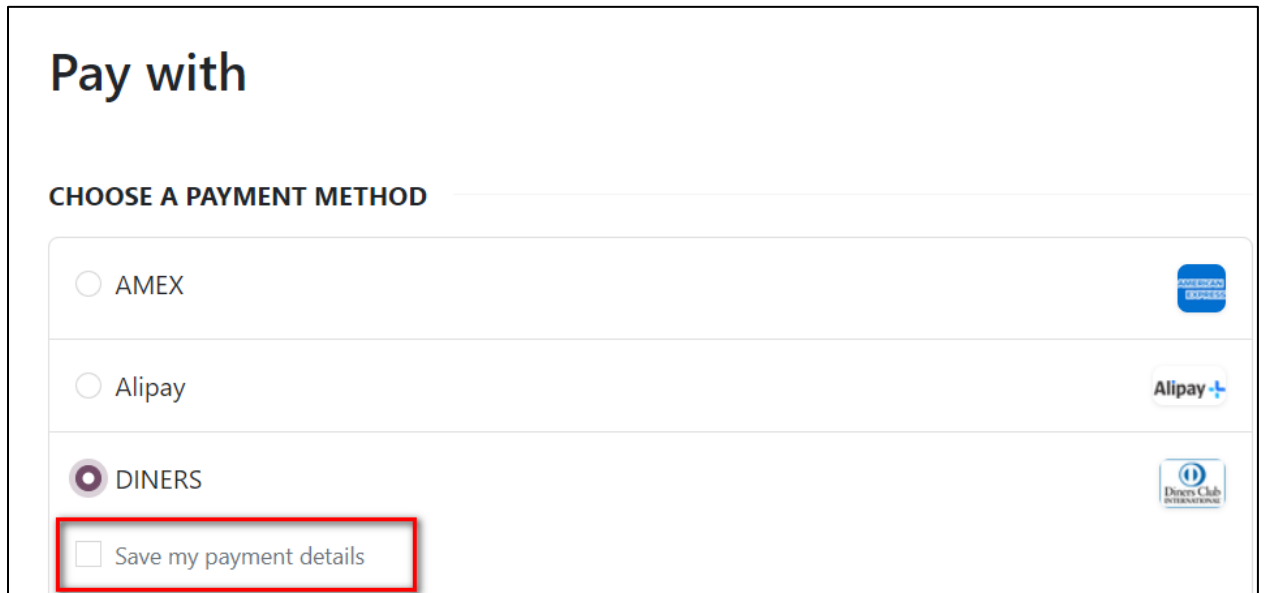


Figure 9 - Payment Providers form view

Here we can set the Odoo default configurations for providers:

- **Payment Journal:** Used to set up the Journal used for this provider.
- **Capture Amount Manually:** If selected then the manual capture option gets activated for that provider.
- **Allow Saving Payment Methods:** - An option that enables the card to be saved for future transactions from checkout page and from My Account -> Payment Methods.
 - **Tokenization:** This option is used along with the Allow Saving Payment methods feature. Go to related payment method of the provider -> *Configuration* -> *Enable "Tokenization Supported"* checkbox. This enables users to decide whether to save the card while making payment.
 - **My Account save card permission for Portal Users:** Go to *Settings* -> *Technical* -> *Access Rights*. Provide full access to Portal user for `payment.token.system` and `payment.provider.system`.



The screenshot shows a 'Pay with' section titled 'CHOOSE A PAYMENT METHOD'. It lists three payment methods: AMEX, Alipay, and DINERS. Each method has a radio button and a corresponding logo. The 'DINERS' option is selected. Below the list is a checkbox labeled 'Save my payment details', which is checked and highlighted with a red rectangular border.

Figure 10 - Save Card feature enabled

- **Payment Methods:** -Used to display the Supported payment methods. We get the Allowed Currencies and Code for Payment provider from payment methods.

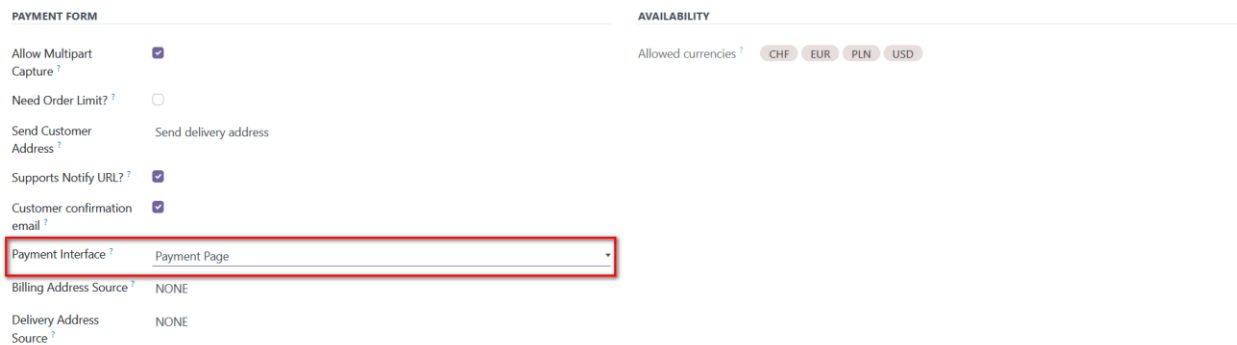
7. Configurations Only for Saferpay Providers

- **Need Order Limit:** If checked we can set the minimum and maximum order limits.
- **Send Customer Address:** Used to decide to send the customer delivery and billing address to Saferpay back office.
- **Support Notify URL:** It is used to set this acquirer's support Notify URL.
- **Customer Confirmation email:** It is used to set whether a customer confirmation email is needed. Saferpay sends the mail only if the customer is redirected to Saferpay payment page. Emails for DCC transaction will be sent in all payment interfaces.

- **Allowed Currencies:** The Allowed Currencies are loaded from Payment methods, the listing of payment methods on the payment page depends upon this currency. If the shop currency is not listed in these allowed currencies, then it is not listed on the shop payment page.
- **Payment Interface:** It is used to change the payment interface, there are 3 options:
 - **Payment page:** - If enabled, then the checkout page will direct to the Saferpay Payment page.
 - **Transaction Interface:** - If enabled, then the checkout page will load the transaction interface (iframe).
 - **Saferpay Fields:** If enabled, payment can be proceeded with Saferpay Fields. The workflow is the same as an I-frame, the data is captured by a fully PCI-certified system.
- **Register Payment Type:** This is used to define the type of payment method/acquirer, it is more important for saving cards. Which are,
 - CARD
 - BANK_ACCOUNT
 - POSTFINANCE
 - TWINT
- **Support Refunds:** It is used to specify whether this acquirer supports refunds.
- **Smart Buttons:**
 - Saferpay Logging: List of all logs regarding the API call used for this acquirer.
 - Business License: This is used for license switching, e-Commerce, and Business license.

8. Payment Interface

- Go to menu *Invoicing* → *Configuration* → *Payment Providers*, choose the acquirer. Then the configuration of the payment method is as shown in the below figure.

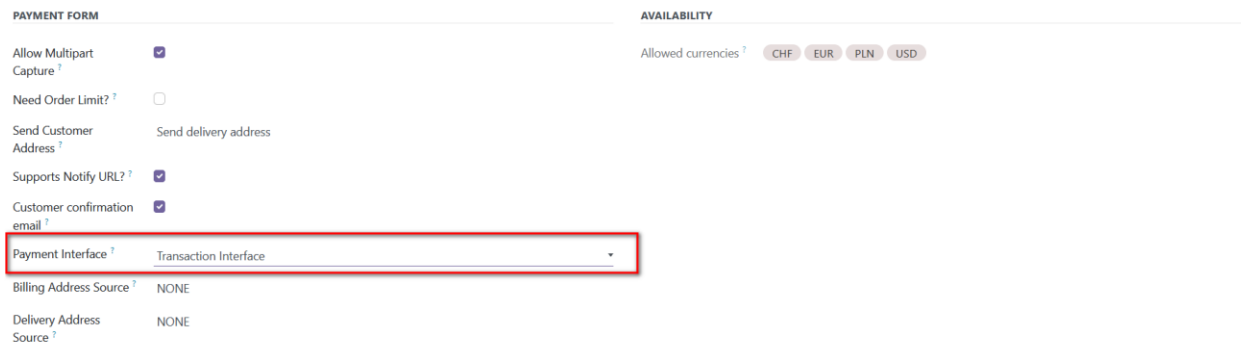


PAYMENT FORM		AVAILABILITY	
Allow Multipart Capture ?	<input checked="" type="checkbox"/>	Allowed currencies ?	CHF EUR PLN USD
Need Order Limit? ?	<input type="checkbox"/>		
Send Customer Address ?	Send delivery address		
Supports Notify URL? ?	<input checked="" type="checkbox"/>		
Customer confirmation email ?	<input checked="" type="checkbox"/>		
Payment Interface ?	Payment Page		
Billing Address Source ?	NONE		
Delivery Address Source ?	NONE		

Figure 11 – Configuration for Payment page

9. Transaction Interface

- Go to menu *Invoicing* → *Configuration* → *Payment Providers*, choose the acquirer. The configuration of the transaction flow is shown below figure.
- Need to switch the acquirer license to a business license to activate this flow.

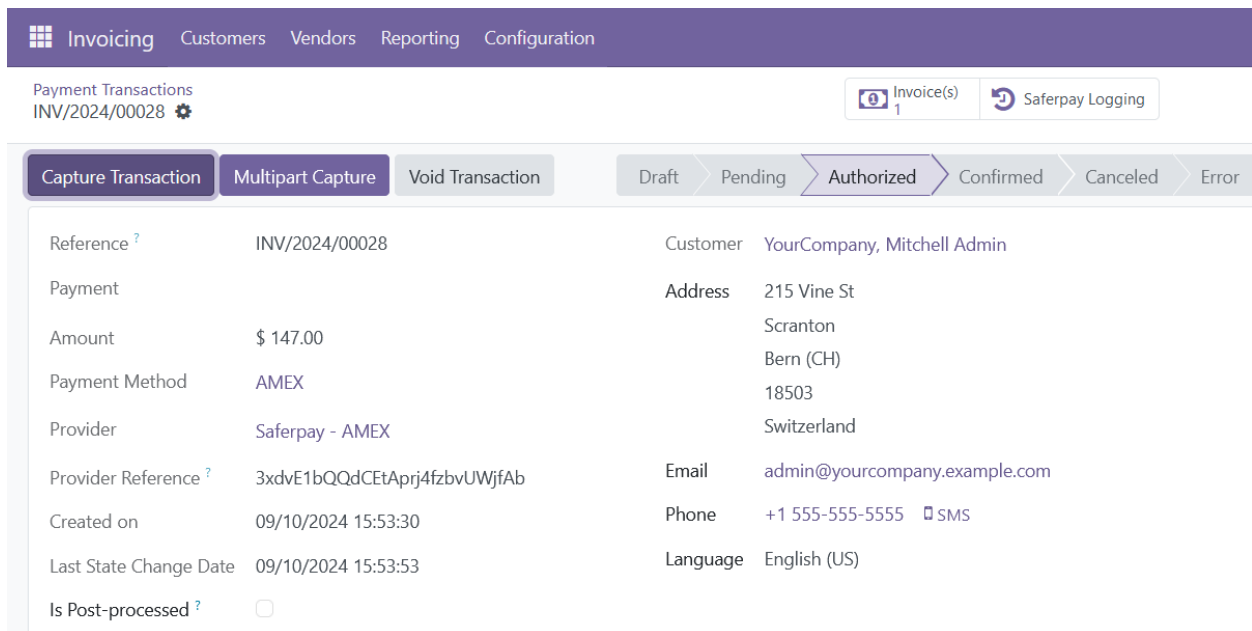


PAYMENT FORM		AVAILABILITY	
Allow Multipart Capture ?	<input checked="" type="checkbox"/>	Allowed currencies ?	CHF EUR PLN USD
Need Order Limit? ?	<input type="checkbox"/>		
Send Customer Address ?	Send delivery address		
Supports Notify URL? ?	<input checked="" type="checkbox"/>		
Customer confirmation email ?	<input checked="" type="checkbox"/>		
Payment Interface ?	Transaction Interface		
Billing Address Source ?	NONE		
Delivery Address Source ?	NONE		

Figure 12 – Configuration for Transaction Interface

10. Manual Capture & Multipart Capture & Void Transaction

- **Manual Capture:** After the transaction is completed and enters the authorized state, the capture button must be clicked to finalize the transaction.
- **Multipart Capture:** The amount can be captured either fully or partially. Clicking the Capture Transaction button captures the full amount, while using Multipart Capture allows for partial captures.
- **Void Transaction:** By using the Void Transaction button, we can cancel the transaction.



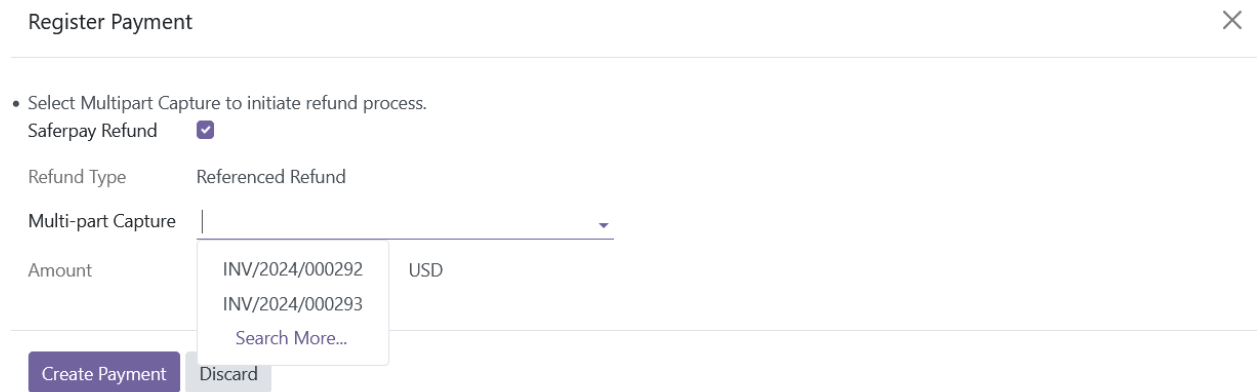
The screenshot shows the Saferpay plugin interface. At the top, there is a navigation bar with 'Invoicing', 'Customers', 'Vendors', 'Reporting', and 'Configuration'. Below this, the transaction ID 'INV/2024/00028' is displayed along with 'Invoice(s) 1' and 'Saferpay Logging'. A status bar shows 'Draft', 'Pending', 'Authorized' (selected), 'Confirmed', 'Canceled', and 'Error'. The main area displays transaction details:

Reference ?	INV/2024/00028	Customer	YourCompany, Mitchell Admin
Payment		Address	215 Vine St Scranton Bern (CH) 18503 Switzerland
Amount	\$ 147.00		
Payment Method	AMEX		
Provider	Saferpay - AMEX		
Provider Reference ?	3xdvE1bQQdCEtAprj4fzbvUWjfAb	Email	admin@yourcompany.example.com
Created on	09/10/2024 15:53:30	Phone	+1 555-555-5555 <input type="checkbox"/> SMS
Last State Change Date	09/10/2024 15:53:53	Language	English (US)
Is Post-processed ?	<input type="checkbox"/>		

Figure 13– Manual/Multipart Capture

11. Refund

- For the refund option need to switch the acquirer to the Business license.
- The refund has two options:
 - Referenced Refund: In this case, the original transaction reference is present in the Saferpay back office.
 - Referenced refund can be done as refunding of Multipart (Manual) captured transactions and Normal captured transactions.



Register Payment ×

• Select Multipart Capture to initiate refund process.

Saferpay Refund

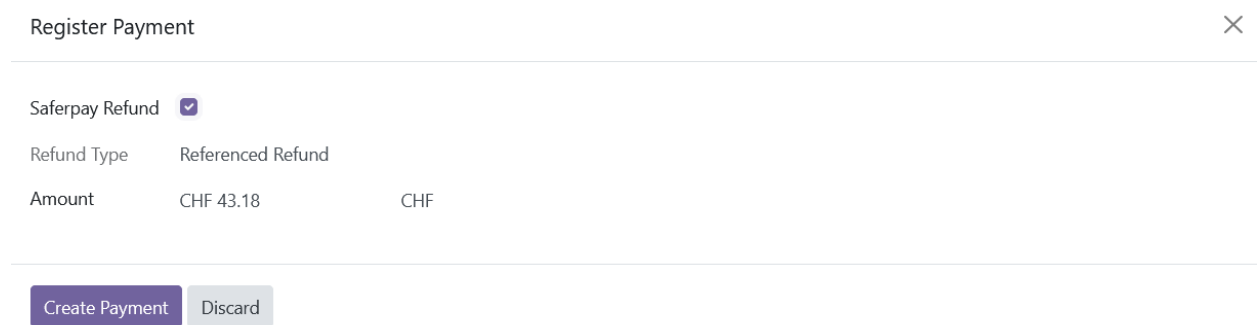
Refund Type Referenced Refund

Multi-part Capture |

Amount INV/2024/000292 USD
INV/2024/000293
Search More...

Create Payment Discard

Figure 14– Referenced refund for Multipart capture



Register Payment ×

Saferpay Refund

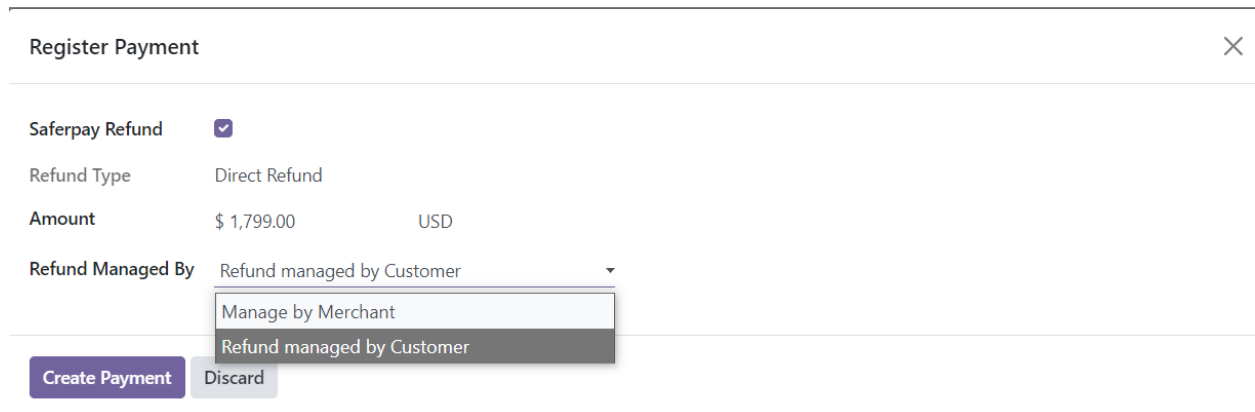
Refund Type Referenced Refund

Amount CHF 43.18 CHF

Create Payment Discard

Figure 15 – Referenced refund

- Direct Refund: This type of refund can be used when the original transaction is not present in the Saferpay back-office.
 - Manage by merchant: The refund can be made to any saved payment token in the system.
 - Refund managed by Customer: The refund is made against the original transaction.



The screenshot shows a 'Register Payment' form with the following fields and values:

- Saferpay Refund:**
- Refund Type:** Direct Refund
- Amount:** \$ 1,799.00 USD
- Refund Managed By:** A dropdown menu is open, showing three options: 'Refund managed by Customer' (selected), 'Manage by Merchant', and 'Refund managed by Customer'.

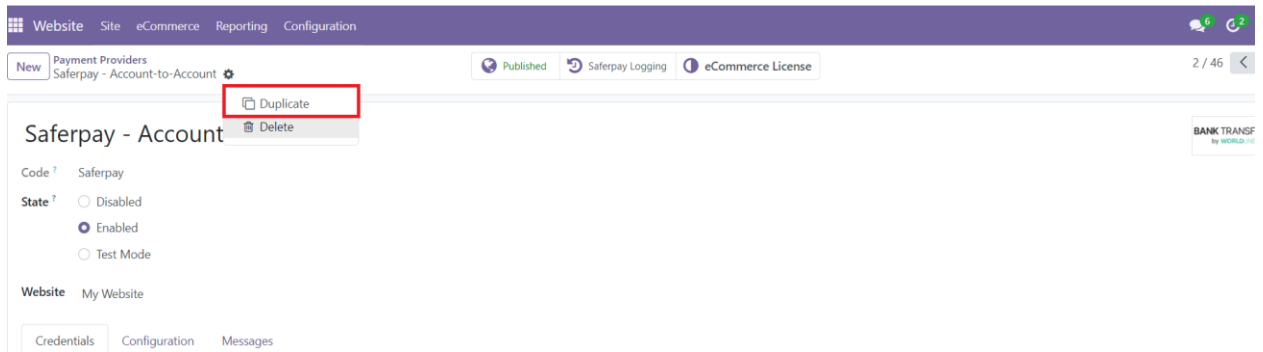
At the bottom of the form, there are two buttons: 'Create Payment' (purple) and 'Discard' (grey).

Figure 16 - Direct Refund

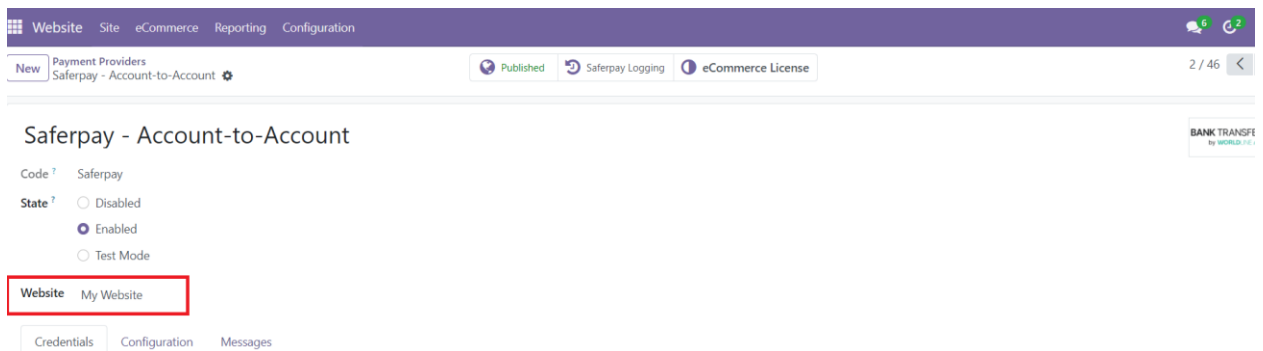
- Some of the payment methods don't support direct refund, so need to refer to Saferpay documentation before configuration.

12. Saferpay Multi-website Backend configuration

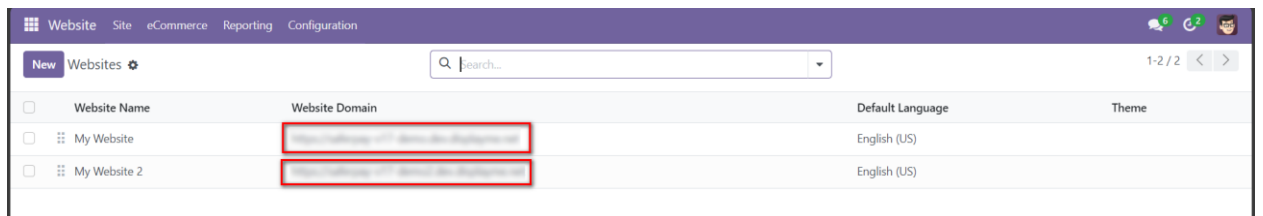
- If no website is mapped against a payment provider, it will be available for all website domains.
- For multi-website configuration, need to create multiple Saferpay payment Provider by duplicating the existing Saferpay payment Provider.



- After creating the Saferepay payment Provider, map the respective website and add the Saferepay credentials.



- For multi-website functioning, it is necessary to set the domain for the websites.



13. Brief Description

For the smooth functioning of this plugin, there are a few configurations that need to be done in the backend.

- Setting up Saferpay Provider Configuration is the initial step where the Terminal ID, Customer ID, API Username, API Password, API Key of your Saferpay web administration tool must be provided.
- The Saferpay payment methods will be listed on the shop payment page.
- Choose the Saferpay payment method, pay from the Saferpay payment page, and get back to the odoo webshop.

Initial step-by-step description

Prerequisites: Before integrating the Saferpay payment Acquirer plugin make sure that you have a Saferpay web administration tool.

The interface with which you can easily verify and process transactions. API Username, API Password, API Key are the details we need from the webadmin tool for Odoo backend configuration.

Step 1: Install the Saferpay Payment Plugin.

Step 2: Add the Saferpay credentials (Terminal ID, Customer ID, API Username, API Password, API Key) in the Saferpay Acquirer Configuration record in the Odoo backend configuration.

Step 3: Click on “Payment method synchronization” button to automatically configure and enable available payment methods or can manually enable desired payment providers.

Step 4: Go to the e-commerce website, add products to the cart, and proceed to checkout.

Step 5: Choose the Saferpay payment method and click Pay now.

Step 6: Complete the transaction by filling out the necessary details on the Saferpay Payment Page.

Step 7: The order is placed on a successful payment transaction.

Saferpay Multi-website

Step 8: Multi-Website Configuration:

- To set up Saferpay for multiple websites, duplicate the Saferpay Provider configuration using the Duplicate button.

Step 9: Map and Configure Multiple Websites:

- Map the duplicated Saferpay Provider to the respective websites and enter the appropriate credentials for each.

Step 10: Set Domain for Websites:

- Ensure each website's domain is correctly set up in Odoo for proper multi-website functionality.

14. Technical Requirements / Compatible With:

- Technical Requirements: Odoo Sales, Payment, Contact and Website Module.
- Compatible with ODOO On Premise version 17.
- Supported Saferpay JSON API version 1.40.

15. Changes Log / Release Notes

Version 2.0.0: October 2024

- Updated to JSON 1.40.
- Added support for Account-to-Account, SEPA ELV, and WeChat Pay providers.
- Introduced multi-website support.

Version 1.0.0: September 2024

- Initial release.

16. Support

If you have questions, use our contact form at webshopextension.com or email at support@webshopextension.com.